

LISTITSKAYA, F. M.

LISTITSKAYA, F. M. "The Clinical Aspects, Etiology, and Pathogenesis of Hemorrhagic Meningoencephalitis." Min Health Ukrainian SSR. Kiev Order of Labor Red Banner Medical Inst imeni Academician A. A. Bogomolets. Chair of the Hospital Therapeutic Clinic. Kiev, 1955. (Dissertation for the Degree of Candidate in Medical Science)

So: Knizhnaya Letopis', No. 19, 1956.

LISTITSKAYA, F. M.

KOLOSOVA, M.S.; LISTITSKAYA, F.M., kandidat meditsinskikh nauk (Kiyev)

Hemangioma of the spinal cord. Vrach.delo no.4:413-415 Ap '57.
(MLRA 10:?)

1. Nevrologicheskoye otdeleniye (zav. - M.S.Kolosova) Vtoroy
bol'nitsy Pecherskogo rayona.
(SPINAL CORD-TUMORS)

~~LISTITSKAYA, V.M. (Kiyev)~~

Hemorrhagic meningoencephalitis. Vrach.delo no.2:135-139 F '58.
(MIRA 11:3)

1. Nevrologicheskoye otdeleniye Vtoroy rayonnoy bol'nitey Pecherskogo
rayona.
(ENCEPHALITIS)

KOLOSOVA, M.S., LISTITSKAYA, F.M.

Damage to the nervous system from lightning and electricity.
(MIRA 11:?)
Vrach.delo no.5:497-499 My '58

1. Nevrologicheskoye otdeleniye (zav. otd. - M.S. Kolosova)
vtoroy bol'nitsy Pecherskogo rayona g. Kleyva.
(ELECTRICITY, INJURIES FROM)

KOLOSOVA, M.S.; LISTITSKAYA, F.M., kand.med.nauk

Vitamin B₁₂ treatment of nervous system diseases. Vrach.delo
no.3:303-305 Mr '59. (MIRA 12:6)

1. Nevrologicheskoye otdeleniye Vtoroy rayonnoy bol'nitsy
Pecherskogo rayona g.Kiyeva.
(CYANOCOBALAMINE) (NERVOUS SYSTEM--DISEASES)

LESHCHENKO, A.G., starshiy nauchnyy sotrudnik; LISTITSKAYA, F.M., kand.med.
nauk

Working classification of vascular diseases of the brain. Vrach.
delo no.2:18-22 F '61. (MIRA 14:3)

1. Otdel organiceskoy nevropatologii (zav. - starshiy nauchnyy
sotrudnik A.G.Leshchenko) Odesskogo nauchno-issledovatel'skogo
psichonevropaticheskogo instituta.
(BRAIN—DISEASES)

LISTITSKAYA, F.M., kand.med.nauk

Pathogenesis of hemorrhagic meningo-encephalitis. Vop. klin.
nevr. i psich. no.2:138-142 '58 (MIRA 14:10)
(ENCEPHALITIS) (HEMORRHAGIC DISEASES)

LISTITSKAYA, F.M.; SHOGAM, I.I.

Role of the sympathetic trunk in the clinical picture of lesions
of the midbrain. Zhur.nevr. i psikh. 63 no.12:1813-1817 '63.
(MIRA 18:1)

1. Odesskiy nauchno-issledovatel'skiy psikhoneurologicheskiy
institut (direktor A.G.Leshchenko, nauchnyy rukovoditel' - prof.
A.Yu.Vyyasnovskiy)

GERBER, M.I.; DERMANOVA, I.G.; LISTKOVA, T.M.; STRIGALEVA, N.V.

Determining the molecular weight of petroleum oils by isothermal distillation. Trudy VNIGRI no.174:210-217 '61.
(MIRA 14.12)

(Molecular weights)
(Petroleum)
(Bitumen)

LISTNYANSKAYA, B.M., inzhener.

Manufacture of walnut-finish furniture stains. Der. prom.
5 no.10:18-19 O '56. (MLRA 9:11)

1. Leningradskaya mebel'naya fabrika no.1.
(Wood finishing)

MOZYRSKIY, I.B., inzh.; LISTOPAD, A.F., inzh.

Transfer line for the manufacture of a body and bottom of an
electric socket. Khim.mashinostr. no.4:42-43 Jl-Ag '63.
(MIRA 16:9)
(Electric apparatus and appliances)

LIS TOPAD, G.F., starshiy elektromekhanik

Changes in a network for switching-in a line transformer. Avtom.
telem.i sviaz' 6 no.2:40 F '62. (MIRA 15:3)

1. Zaporozhskaya distantsiya signalizatsii i svyazi Pridneprovskoy
dorogi.

(Railroads--Signaling--Block system)

LISTOPAD, G. YE.

Listopad, G. Ye. -- "Investigation of the Work of a Vibration Siftner in the Separation of Grain Mixtures." Min Culture USSR, Moscow Inst of Mechanization and Electrification of Agriculture imeni V. M. Molotov, Moscow, 1954 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No 24, 11 June 1955, Moscow, Pages 91-104

AUTHOR: Listopad, G.Ye., Candidate of Technical Sciences, Dotsent 3-58-7-23/36

TITLE: Problems of Industrial Training (Voprosy proizvodstvennogo obucheniya)

PERIODICAL: Vestnik vysshey shkoly, 1958, Nr 7, pp 69-70 (USSR)

ABSTRACT: The training methods of students of the faculty of agricultural mechanization of the Stalingrad Agricultural Institute are described. First year students usually help kolkhozes and sovkhozes during harvest, man the agricultural machines, maintain and repair them and so acquire experience. Second year students work in various plants and acquire technological knowledge.

ASSOCIATION: Stalingradskiy sel'skokhozyaystvennyy institut (The Stalingrad Agricultural Institute)

Card 1/1

KOZHEMYAKIN, N., prof.; BUTYAGIN, V., dotsent; IVANOV, I., dotsent;
LISTOPAD, V.

Effect of cattle feeding with bagasse on the bone tissue.
Mias. ind. SSSR 34 no.5:47-48 '63. (MIRA 16:11)

1. Leningradskiy veterinarnyy institut.

USSR / Cultivated Plants. Fodder Crops.

M-5

Abs Jour : Ref Zhur - Biologiya, No 13, 1958, No. 58658

Author : Listopadov, I. N.

Inst : Not given

Title : Root System and Nutrition Areas of Fodder Watermelon

Orig Pub : S.-kh. Povolzh'ya, 1957, No 5, 50-53

Abstract : Fodder watermelon has a very high yielding capacity in the Stalingrad oblast. Nutrition areas of 1, 3, 5, 7 and 9m^2 are studied with regard to the watermelon variety DISKhIM. Locations near the surface and a great radius of reach for the root systems of the fodder watermelon are established during a dry year and in large nutrition areas. On the other hand, a small radius of reach and a root system extending in depth were observed when there was a sufficient amount of moisture in the sub-arable layers. This was particularly true in the

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Abs Jour : Ref Zhur - Biologiya, no 13, 1958, No. 58658

case of dense sowing. When the moisture in the sub-arable layers in the spring is sufficient, smaller nutrition areas may be accepted, but many small, under-developed and unripened fruits are produced by dense sowing. The maximum yield was in the nutrition areas of 7 and 9m^2 in a dry year such as 1954; in a moist year such as 1955 the best yield was produced in areas of 3m^2 . In 1955 (sic), when there was an average amount of moisture, optimum results were obtained in areas of 5m^2 . -- E. V. Kolesnikova

Card 2/2

LISTOPADOV, I. N., Cand Agri Sci — (ciass) "Development of root system of the citron and its value in the basis and the development of procedures for cultivation on light brown soils," Stalingrad, 1958, 16 pp
(Stalingrad Agricultural Institute) (M-25 (2-101))

"APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120013-2

(Creating latex and aqueous dispersions of synthetic rubber and cellulose acetate)

CF

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120013-2"

AUTHORS: Gel'perin, N. I., Liakumovich, A. G., Listopadov, M. V. SOV/156-58-1-46/46

TITLE: Solvent Extraction in a Countercurrent Injector Column
(Ekstraktsiya iz rastvorov v protivotochnoy inzhektornoy kolonne)

PERIODICAL: Nauchnyye doklady vysshey shkoly, Khimiya i khimicheskaya tekhnologiya, 1958, Nr 1, pp. 193 - 198 (USSR)

ABSTRACT: Among the separation processes playing an important part in chemical engineering, solvent extraction is of great significance. It is based upon the laws of diffusion and of equilibrium distribution. Though related to each other, extraction, rectification, and absorption processes are not always conveniently arranged alike as regards equipment. In particular, rectifying and absorption columns will often be of very little efficiency in extraction. A search has therefore been made for more perfect designs, and for a more intensive operation of usual extraction equipment. Some of these types are mentioned (Refs 1-11). No exhaustive solution to this problem having been found until now, further research work

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Solvent Extraction in a Countercurrent Injector Column SOV/156-58-1-46/46

is still of current interest. The authors have developed the column mentioned in the title, and have introduced it into large-scale use. It has no filling bodies, and is provided at both ends with an injector each. These, being directed against each other, serve for introducing the original solution, and the solvent (Fig 1). Under certain hydrodynamical conditions and structural dimensions, the injectors not only assure dispersion of the two liquid phases but also their thorough mixture by creating areas of high turbulence at both ends of the column. For testing the new extraction equipment, 4 types of this apparatus having equal working dimensions (diam. 50 mm, height 2 m) were studied. Two systems of practical interest in synthetic rubber industry were investigated: 1) a mixture of n-butlenes- acetone - water, 2) a mixture of diene hydrocarbons C₆ and higher - divinyl ether with water (Fig 2). The experimental results which are given in table 1 show that the injector column has double capacity at a height at least 4 times smaller. Table 2 shows experimental results obtained with the hydrocarbon - diethyl ether - water system in all 4 column types. Furthermore two injector columns in sequence, and one column having 2 and 3 water injectors installed in

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Solvent Extraction in a Countercurrent Injector Column SOV/156-58-1-46/46

series and one injector for the original mixture, were also studied. From this the maximum capacity of the injector column may be seen especially if the solvent is fed through several injectors installed serially. Capacity increases with increasing discharge velocity of liquid from injector nozzles. Optimum dimensions of the injector were determined with the petroleum - acetic aldehyde - water system (Figs 3,4, Table 5). Large-scale use of these injector columns has fully confirmed laboratory results, and has proven that the design based on the nozzle discharge velocity was correct. There are 4 figures, 5 tables, and 11 references, 1 of which is Soviet.

ASSOCIATION: Kafedra protsessov i apparatov khimicheskoy tekhnologii Instituta tonkoy khimicheskoy tekhnologii im.M.V.Lomonosova
(Chair of Chemical Engineering Processes and Equipment of the Institute for Fine-Chemical Engineering imeni M.V. Lomonosov)

SUBMITTED: October 9, 1957
Card 3/4

Solvent Extraction in a Countercurrent Injector Column SOV/156-58-1-46/46

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USCOMM-DC-60472

LIST OF PAGES: M. V.

NAME & BOOK INFORMATION
1907/5155
Gurevich, I.P., and Yu.S. Shatovitch, Bepo, eds.
Solutions for the Production of Synthetic Rubber. (Synthesis of
Rubbers for the Production of Synthetic Rubber). Izdatgiz, Gosizdat, 1950.
180 p. Printed 1 Inserted.
3,500 copies printed.
Engineering-Scientific Gosudarstvennyy Institut Svernaia Mekhanika GOSNI. "Voprosy tekhniki i nauchno-tekhnicheskikh issledovanii."

Auth.: I.A. Zaitsev and Yu. I. Shary-Sokh. Eds.: I.P. Gurevich.

SUMMARY: This book is intended for scientists, engineers, and technicians working in the synthetic rubber, plastics, and petrochemical industries, and is scientific research documents affiliated with these industries.

CONTENTS: The book contains articles which report on research carried out at the Research-Institutional Scientific Institute for Synthetic Rubber (now S.V. Lachinov Scientific Research Institute for Synthetic Rubber) and the Gomel' Industrial Scientific Research Institute for Synthetic Rubber (now Gomel' Scientific Research and Design Institute of the Scientific Rubber Industry) in the synthesis of isoprene, styrene, acrylates, acrylonitrile, and other initial products for synthetic rubber production. The article also discusses methods of extracting these products from their preparatory synthesis. No permissions are mentioned. References accompany individual articles.

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- Kuznetsov, L.D., Yu.P. Vinogradov, and Yu. I. Lubanov. Separation of Diene Hydrocarbons by Chromatography With Water-Ethylenic Salts of Sulfates or Oxides. Report III. Separation of Styrene With Cuprous Chloride Solution. 103.
- Kuznetsov, L.D., Yu.P. Vinogradov, and Yu. I. Lubanov. Separation of Diene Hydrocarbons by Chromatography With Water-Ethylenic Salts of Sulfates or Oxides. Report IV. Separation of Styrene With Pyridine. 110.
- Novik, Yu.A., B.O. Shabotova, and A.E. Pustovetov. Preparation of the Oxidation of Methanol in the Contact Process of Producing Butyric Acid. 120.
- Novik, Yu.A., Yu.P. Vinogradov, and Yu. I. Lubanov. Separation of Diene Hydrocarbons by Chromatography With Water-Ethylenic Salts of Sulfates or Oxides. Report V. Separation of Styrene With Pyridine. 124.
- Maryanov, Yu.V., and Yu.M. Raskin. Separation of Hydrocarbons and Other Impurities From a Condensate by the Extraction Method. 145.
- Vorob'ev, A.S., Shashkov, M.V., Litvinovich, K.M., Chernov, and N.P. Uzinskaya. Development of an Industrial Method of Producing 2-Methyl Propylene. Development of an Industrial Method of Producing 2-Methyl Propylene By the Dehydrogenation of Isopropylbenzene in an Adiabatic Reactor. 162.
- Shashkov, V.Y., and I.A. Vaynshteyn. Catalytic Polymerization of Ethyl Benzene Into Styrene. Report I. 167.
- Novik, Yu.A., Yu.P. Vinogradov, and Yu. I. Lubanov. Separation of Acetylene and Phenylacetylene by the Pyrolysis of Styrene carbons. 197
- Martin, I.P., Yu.P. Vinogradov, A.M. Deryugin, N.S. Korolova, L.I. Kostopal'skii, M.L. Litvinovich, Yu. I. Lubanov, Yu. M. Raskin, and Yu. A. Shashkov. Separation of Acetylene From Pyrolysis Gases by Desorption With Dimethyl Formamide. 207

S/081/61/000/021/058/094
B138/B101

AUTHORS: Morina, I. N., Vinogradova, N. P., Listopadov, M. V.,
Starostina, Ye. S.

TITLE: Combined synthesis of acetylene and ethylene by hydro-
carbon pyrolysis

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 21, 1961, 317, abstract
21L11 (Sb. "Sintez monomerov dlya proiz.-va sintetich.
kauchuka". L., Goskhimizdat, 1960, 197 - 206)

TEXT: C_2H_2 and C_2H_4 are simultaneously produced, in quantities of up to
50 % by weight of the starting hydrocarbons, by the pyrolysis of propane
and butane (temperature $\geq 1050 - 1100^{\circ}C$, contact time 0.1 - 0.15 sec.).
Depending on conditions of production, the C_2H_2/C_2H_4 ratio varies between
1 : 3 and 3 : 1. For commercial production it is suggested that tubular
furnaces should be used. They should be made of the refractory alloy No. 2,
have tube diameter 50 mm and length 23 m, and allow for the rare action

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Combined synthesis of acetylene...

of ≥ 2 parts by weight of steam. The life of a furnace with a battery of 20 tubes would be 4 thousand tons C_2H_2 and 5 thousand tons C_2H_4 per annum.

[Abstracter's Note: Complete translation.]

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LISTOPADOV, M.V.

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S/081/61/000/020/070/089
B126/B147

AUTHORS: Morina, I. N., Vinogradova, N. P., Davydov, A. N.,
Kornilova, N. S., Konetspol'skiy, L. I., Listopadov, M. V.,
Starostina, Ye. S., Chernysheva, R. K., Shainskiy, Ya. B.

TITLE: Separation of acetylene from pyrolysis gases, using
dimethyl formamide as absorbent

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 20, 1961, 317, abstract
2019 (Sb. "Sintez monomerov dlya proiz-va sintetich.
kauchuka". L., Goskhimizdat, 1960, 207-215)

TEXT: A scheme for separating concentrated C₂H₂ from gases produced by
high-temperature pyrolysis of hydrocarbons, using dimethyl formamide as
absorbent, was developed and checked on a test unit. The optimum
conditions for the process were established which ensure a virtually
complete extraction of C₂H₂ from pyrolysis gases and a yield of concentrate
containing 98 to 99 % by volume of C₂H₂. [Abstracter's note: Complete
translation.]

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4

BASIYEV, I.M.; LISTOPADOV, M.V. [deceased]

Use of diamides as foam inhibitors in the reprocessing synthetic
latexes. Kauch. i rez. 24 no.5:26-28 My '65. (MIRA 18:9)

1. Gosudarstvennyy proyektnyy i nauchno-issledovatel'skiy institut
promyshlennosti sinteticheskogo kauchuka.

LISTOPADOV, N., inzhener.

Tightening the back board of an automobile dump truck, Stroitel' 2
no.11:22 N '56. (MIRA 10:1)
(Motortrucks)

LISTOPADOV, N.P.

Sealing tail gates of dump trucks in transporting mortars and
concrete mixes. [Suggested by N.P. Listopadov]. Rats. i izobr.
predl. v stroi. no.6:33-34 '58. (MIRA 11:10)
(Dump trucks) (Mortar--Transportation)

LISTOPADOV, P.; IVANOV, N.

Improve the way of revising production standards. Sots.trud 4
no.3:122-123 Mr '59. (MIRA 12:4)

1. Kolomenskiy t^eplovozostroitel'nyy zavod imeni V. Kuybysheva
(for Listopadov). (Kolonna--Production standards)

LISTOPADOV, P.; KAZANKOV, A.; SOLOV'YEV, N.

Several questions on wages. Sots.trud 4 no.12:32-34 D '59.
(MIRA 13:6)

1. Nachal'nik yuridicheskogo otdela Kolomenskogo teplovozostroitel'nogo zavoda im. Kuybysheva (for Listopadov). 2. Nachal'nik byuro truda i zarplaty chugunliteynogo tsekha Kolomenskogo teplovozostroitel'nogo zavoda im. Kuybysheva (for Kazankov). 3. Rukovodit'l' brigady kommunisticheskogo truda teplovozomekhanicheskogo tsekha Kolomenskogo teplovozostroitel'nogo zavoda im. Kuybysheva (for Solov'yev).

(Labor laws and legislation)
(Wages)

LISTOPADOV, V. K.

Distribution of the pressure along the cross sections of the blade in aerial propellers
Moskva Izd. Akademii, 1947. 123 p. (Trudy Krasnoznamennoi ordena Lenina Voenno-
vozdushnoi inzhenernoi akademii N.E. Zhukovskogo, vyp. 183) (54-18016)

TL705.L55

LISTOPADOV, V.K.

LISTOPADOV, V.K.

Raspredelenie davlenia po secheniam lopasti vozduzhnogo vinta. Moskva, 1947. 127 p., illus., tables, diagrs. (Moscow. Voenno-voz-dushnaia inzhenernaia akademii im. N.E. Zhukovskogo. Trudy, no. 183)

Bibliography p. 124

Title tr.: Distribution of pressure over propeller blade sections.

TL705.L55

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress,
1955

LISTOPADOV, V.V., kand. khim. nauk; ANTROPOV, L.I., prof., doktor khim. nauk.

Distillation of sulfuric acid. Trudy NPI 27:207-208 '56. (MIRA 10:12)

1. Kafedra tekhnologii elektrokhimicheskikh proizvodstv Novocherkasskogo politekhnicheskogo instituta. 2. Starshiy prepodavatel' kafedry tekhnologii elektrokhimicheskikh proizvodstv Novocherkasskogo politekhnicheskogo instituta (for Listopadov).
(Distillation apparatus) (Sulfuric acid)

LISTOPADOV V.V.

LISTOPADOV V.V., kand. khim. nauk.

Distillation of water. Trudy NPI 27:209-210 '56. (MIRA 10:12)

1. Starshiy prepodavatel' Kafedry tekhnologii elektrokhimicheskikh
proizvodstv Novocherkasskogo politekhnicheskogo instituta.
(Distillation apparatus) (Water)

Listopadov, V. V.

USSR/Electrochemistry

B-12

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26314

Author : V. V. Listopadov, L.I. Antropov
Inst : Novocherkassk Polytechnical Institute. Academy of Sciences of
USSR
Title : Electrical Reduction of Oxalic Acid. I. Influence of Metal
Nature on Process of Reduction. II. Influence of Hydrogen Ion
Concentration of Process of Reduction.

Orig Pub : Nauch. tr. Novocherkas. politekhn. in-ta, 1956, 34 (48), 87-98;
99-107.

Abstract : I. The part of the point of the zero charge (E_0) of the electrode metal in the process of electrical reduction of $H_2C_2O_4$ (I) was studied. The polarization curves (PC) (E , $\log i$) on Pt, Ni, Hg, Pb, Cd and amalgam Tl (TlHg) were measured in H_2 atmosphere in 0.098 n. H_2SO_4 + 0.2 n. $(NH_4)_2SO_4$ with additions of I (0.00549 to 0.560 M) at pH of 1.16 to 1.40. The influence of the cathode material and I concentration on the efficiency of the electrical reduction (EE) was determined; the shift of the potential (E) at a constant i after the introduction of the addition of I into the solution served as the

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Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26314

measure of EE. The PC-s for Pt and Ni are lineal in H_2SO_4 solutions and do not alter at the addition of I (after the adjustment for the change of pH). In case of Hg, the lineality of PC is preserved, but a shift of E to the positive side is observed, the shift being the greater, the greater the concentration of I is. Glyoxalic (II), glycolic (III) and tartaric acids are forming at the electrolysis of I solutions on Hg at various E-s. PC-s on Cd, Pb and TlHg in H_2SO_4 solutions consist of two lineal parts; at the addition of I, the inflexions of PC-s practically disappear and a shift of E to the positive side takes place in the region, corresponding to the negatively charged surface. The dependence of the E shift on the I concentration in case of Cd, Pb and TlHg is the same, as in case of Hg. At the electrolysis of I solutions on Cd, Pb and TlHg, II and III are detected in the solutions. The experimental data are described by the equation $E = a + b \log [I / (1 + gC_R^\beta)]$ (Antropov L.I., Zh. Fiz. khimii, 1950, 24, 1425), where C_R is the volumetric concentration of the adsorbed substance, and a, b, g and β are constants. The conclusion is arrived at, that in case of metals with approximately equal

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USSR/Electrochemistry

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Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26314

overvoltage (η) of hydrogen, the EE on the negatively charged electrode surface is the greater, the less the digression ΔE of the value of E from E_0 is. Cd cathodes appear to be the most efficient. The decrease of η results in the decrease of EE in case ΔE is more or less constant. But it is pointed out that for the appreciation of EE not only the magnitude, but also the nature of η is essential. EE on the positively charged electrode surface is very little; as a rule, an addition of I causes a shift of E to the negative side.

II. PC-s were measured at electrical reduction of I on a stationary Hg cathode in solutions of 0.06 M of I + 0.2 n. $(NH_4)_2SO_4$ with the addition of H_2SO_4 or NH_4OH in the range of pH from 0.07 to 4.83. The obtained PC-s are lineal in the first approximation; an addition of I causes a shift of E to the positive side, if i was constant. Assuming that molecules and ions of I, as well as H^+ participate in the retarded stage of the process, the equation of the dependence of E on i , C_R and pH was derived: $E = a + b \log i + b \log (1 + gC_R^2) + b \text{ pH}$ (1). It is shown that the experimental data for $\log i = \text{const.} = 3.74$, -4.35, -4.95 and $C_R = \text{const.} = 0.06 \text{ M}$ satisfy the equation

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USSR/Electrochemistry APPROVED FOR RELEASE: 06/20/2000 CIA-RDP86-00513R000930120013-2

Abs Jour : Ref Zhur - Khimiya, No 8, 1957, 26314

(1) well in the range of $1 < \text{pH} < 3.8$. On the basis of the obtained data, a conclusion was arrived at concerning the dependence of the speed of I reduction on the general I concentration and the participation of H^+ ions activated in the double electric layer in the initial action (RZhKhim, 1955, 39819). In the opinion of the authors, the assumption of a retarded joining of non-dissociated molecules of I by electrons (Filonovich G.M., Frumkin A.N., Dokl. AN SSSR, 1951, 79, 997) does not explain the experimental data completely.

Card : 4/4

On the Problem of the Electrolytic Reduction of Oxalic Acid SOV/76-32-9-15/46

$$\mathcal{E} = a' + b \lg \frac{j}{1 - g c_R^\beta} + b \text{ pH} \quad (\mathcal{E} \text{-electrode potential,}$$

j - current density, c_R - oxalic acid concentration).

The quantities a' , b , g , and β are constants for the particular cathodes used, and they are summarized in a table. The effectiveness depends upon the position of the zero point and upon the overvoltage of the hydrogen. The most effective are the cadmium electrodes. The effectiveness decreases with the transition to positively charged electrode surfaces, since then the poisoning effect of the oxalic acid becomes prominent. This effect can be attributed to the adsorption of the oxalic acid, or to the fact that by this adsorption sulfate ions are displaced from the electrical double layer, making the discharge of the hydroxyl ions more difficult. There are 12 figures, 1 table, and 36 references, 23 of which are Soviet.

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On the Problem of the Electrolytic Reduction of Oxalic Acid SOV/76-32-9-15/46

ASSOCIATION: Politekhnicheskiy institut, Novocherkassk (Novocherkassk Polytechnical Institute)

SUBMITTED: February 27, 1957

Card 3/3

LISTOV, A. A.

33327. O Kul'ture Vinograda V Severnoy Zone. Sad I Ogorod, 1949, No. 10,
C. 40-43

SO: Letopis' Zhurnal'nykh Statey Vol. 45, Moskva, 1949

1. LISTOV, A.F.
2. USSR (600)
4. Medicine
7. Child hygiene and prophylaxis of accute infections in school. Moskva, Uchpediz,1951
9. Monthly List of Russian Accessions, Library of Congress, February, 1953.Unclassified.

LISTOV, Aleksandr Fedorovich, professor; DANILOVA, N.P., redaktor; BIRON
TSIWA, M.I., tekhnicheskiy redaktor.

[Child hygiene and prevention of acute infections in school;
manual for teachers in elementary and secondary schools] Gigiena
detei i profilaktika ostrykh infektsii v shkole; posobie dlia
uchitelei nachal'noi i srednei shkoly. Izd.2-oe. Moskva, Gos.
uchebno-pedagog. izd-vo Ministerstva prosveshcheniya RSPSR, 1955.
246 p. (School hygiene) (MLRA 9:5)

LISTOV, Aleksey Fedorovich, prof.; YAKUSHIN, B.V., red.; KOZLOVSKAYA, M.D., tekhn.red.

[Hygiene of school-age children and the prevention of infections and helminthiasis; manual for teachers and school physicians]
Gigiena detei shkol'nogo vozrasta i profilaktika infektsii i gel'mintozov; posobie dlja uchitelei i shkol'nykh vrachei. Izd.3..
dop. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959.
335 p.

(CHILDREN--CARE AND HYGIENE) (CHILDREN--DISEASES)

LISTOV, I.M.

LISTOV, A.M., kandidat tekhnicheskikh nauk; MITROFANOV, I.M., kandidat
tekhnicheskikh nauk

Smoke removal equipment for locomotive depots. Trudy TSNIS no.14:
40-67 '55. (MLRA 8:11)

(Smoke prevention)

LISTOV, A.M., kandidat tekhnicheskikh nauk

Method of calculating heat distribution in ventilated rooms heated
by radiation. Trudy TSNIS no.14:68-86 '55. (MLRA 8:11)
(Heat--Radiation and absorption)

LISTOV, A.M.

124-11-12888

Translation from: Referativnyy Zhurnal, Mekhanika, 1957, Nr 11, p. 86 (USSR)

AUTHORS: Listov, A. M., and Drozdov, V. A.

TITLE: A Differential Thermoelectroanemometer.
(Differentsial'nyy termoelektronemometr)

PERIODICAL: Soobshch. Vses. n.-i. in-ta zh.-d. str-va i proektir., 1955, Nr 66,
18 pp.

ABSTRACT: Bibliographic entry.

Card 1/1

KIROV, S.A., kand.tekhn.nauk; LISTOV, A.M., kand.tekhn.nauk; KOPYSHTA, I.L., inzh.; DROZDOV, V.A., kand.tekhn.nauk; TITORENKO, N.Ye., kand.tekhn.nauk; BUTOR, A.I., inz.; Prinimali uchastiye: ALEKSEYEV, A.P., kand.tekhn.nauk; MALYSHEV, Ye.G., kand.tekhn. nauk; GAGARIN, Yu.A., inzh.; TITOVS, S.A., inzh.; TUMARINSON, N.S. inzh.; KRUTIKOV, V.I., inzh., red.; MEDVEDEVA, M.A., tekhn.red.

[Completely precast buildings with few stories] Polnosbornye maloetazhnye zdanija. Moskva, Vses. izdatel'sko-poligr. ob"edinenie M-va putei soobshchenija, 1962. 87 p. (Vsesoiuznyi nauchno-issledov. institut transportnogo stroitel'stva. Trudy no.44). (MIRA 15:8)

(Railroads—Buildings and structures)

(Precast concrete construction)

LISTOV, A.N.

Device for measuring the elasticity modulus of the ice sheet
by seismic methods. Probl. Arkt. i Antarkt. no.10:91-92 '62.
(MIRA 16:2)
(Arctic regions—Ice) (Elasticity—Measurement)

IZRAYLEVICH, L.A., red.; MIKSHTA, V.I., red.; SEVAST'YANOV, N.S.,
red.; LISTOV, I.V., red.; OS'KIN, V.A., tekhn. red.

[Foundry practice] Liteinoe proizvodstvo. Omsk, Omskoe
knizhnoe izd-vo, 1962. 180 p. (MIRA 16:6)

l. Omsk. Mashinostroitel'nyy institut. Kafedra "Mashiny i
tekhnologiya liteynogo proizvodstva."
(Founding)

UL'YANOV, Nikolay Yegorovich; LISTOV, I.V., red.; MEL'NIKOV, V.I.,
tekhn. red.

[Outstanding people of Luzino] Znatnye liudi Luzino. Omsk,
Omskoe knizhnoe izdatel'stvo, 1960. 70 p. (MIRA 14:12)
(Ul'yanovskii District (Omsk Province))—Agricultural workers)

VISHNEVSKIY, A.I.; MIKSHTA, V.I.; SEVAST'YANOV, N.S.; FAYN, A.P.;
LISTOV, I.V., red.; OS'KIN, V.A., tekhn. red.

[Creative cooperation] Tvorcheskoe sodruzhestvo. Omsk, Om-
skoe knizhnoe izd-vo, 1961. 39 p. (MIRA 15:8)

1. Nachal'nik liteynogo tsekha Sibzavoda, Omsk (for Vishnevskiy).
2. Liteyny tsekhan Sibzavoda, Omsk (for Fayn). 3. Kafedra
"Mashiny i tekhnologiya liteynogo proizvodstva" Omskogo mashin-
ostroitel'nogo instituta (for Mikshta, Sevast'yanov).
(Omsk—Founding—Technological innovations)
(Socialist competition)

SERGIYENKO, Pavel Sergeyevich; LISTOV, I.V., red.

[Fourth cascade production line; "big chemistry" has
come to Omsk] Chetveryi kaskad; v Omsk prishla bol'-
shaya khimiya. Omskoe knizhnoe izd-vo, 1963. 94 p.
(MIRA 17:8)

LISTOV, I.V., red.

[People with inquisitive minds] Liudi pytlivoi mysli.
Omsk, Omskoe knizhnoe izd-vo, 1964. 70 p.
(MIRA 17:9)

PHASE I BOOK EXPLOITATION SOV/3431

Listov, Konstantin Mikhaylovich and Kirill Nikolayevich Trofimov

Radio i radiolokatsionnaya tekhnika i ikh primeneniye (Radio and Radar and Their Application) Moscow, Voyen. izd-vo M-va obor. SSSR, 1960. 423 p. (Series: Biblioteka ofitsera) No. of copies printed not given.

Ed.: P.I. Gnutikov, Colonel; Tech. Ed.: M.A. Strel'nikova.

PURPOSE: The book is intended for officers of the armed forces with a secondary school education.

COVERAGE: The book consists of two parts. The first contains brief information on radio engineering and on the history of development of radio communications equipment, and outlines the principles of construction and operation of radio equipment used by the Army and Navy. The second part acquaints the reader with the development of radar in the Soviet Union, the physical fundamentals of radar, the classification of radars, and their military application. The book is based largely on material published in the open non-Soviet

Card 1/8

Radio and Radar (Cont.)

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literature. The authors state that the book does not purport to represent any official point of view on the problems discussed but reflects only the opinions of the authors. The following persons participated in writing the book: M.G. Grishin (Chapter VII), S.S. Sonchik (Chapter VI) and A.V. Savodnik (Chapters IV and V and the general editing of Chapters I to V). There are 64 references, 17 Soviet, and the remainder English, French and translations.

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LISTOV, P. N. Dr. Tech. Sci.

Dissertation: "Electric Power for Tillage in the System of Complex Electrification of Agriculture." All-Union Sci. Res. Inst. of Mechanization and Electrification of Agriculture - VIME, 17 Jun 47.

SO: Vechernyaya Moskva, Jun, 1947 (Project #17836)

LISTOV, P. N.

"The programmatic problems of the power-engineering characteristics of the basic branches of agriculture", by Candidate of Agricultural Sciences P. N. Listov, at the Power Engr. Inst. im KRZHIZHANOVSKIY of the Acad. Sce. USSR.

SO: Elektrichestvo, No 5, Moscow, May 1947 (U-5533)

LISTOV, P. N.

At the plenary meeting of the conference of the Power Establishments of the Academies of Science of the Union Republics and of the Affiliates of the Academy of Science, USSR, the following paper was presented by a Candidate of Agricultural Sciences, P. N. Listov, ■ "A new power system for field work within the system of complex electrification of agriculture".

SO: Elektrichestvo, No. 9, Moscow, Sept. 1947 (U-5534)

LISTOV, P.

USSR/Agriculture

tractors, Electric
Electric Power

Jun 49

P4 R-1074
"Scientific Principles for Power Utilization in Agriculture," P. N. Listov, Dr. Tech Sci, 12 pp

"West At Naub USSR" No 6

Present-day electric tractors in USSR have power ranges of 6, 12, 18, 37, and 45 kw. During a season of field work, each electric tractor saved 20-25 tons of liquid fuel and used 70% less lubricants than thermal-powered tractors. Also, 25-30% fewer personnel were used in exploitation of electric tractors. Gives

5K/4914

Jun 49

USSR/Agriculture (Contd)

areas of application for low-, average-, and high-power tractors.

5K/4914

Hydroelectric Power Stations

Great Communist construction projects and the electrification of agriculture. Kolkh.
proiz. 12, no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, October 1952. UNCLASSIFIED.

LISTOV, P.

Rural Electrification

Stalin communist construction projects and the electrification of agriculture.
Sots. sel'khoz., 23, No. 1, 1952.

Monthly List of Russian Accessions, Library of Congress, June 1952. Unclassified.

LISTCV, P N

Primeneniye elektricheskoy energii v sel'skom khozyaystve (The use of electric power in agriculture). Moskva, Sel'khozgiz, 1953

558 p. Illus., diagrs., tables.

Bibliography: p. 556

N/5
735.93
.L7

LISTOV, P. N.

"A Brief History of the Development of Electrification in Agriculture",
Primeneniye elektricheskoy energii v sel'skom khozyaystve, 1953, pp. 7-28.

Trans.

M-162, 12 Feb 55

LISTOV, P.N., professor, doktor tekhnicheskikh nauk.

Electrification of Soviet agriculture. *Met.v shkole no.5:25-31 S-O '53.*
(MIRA 6:8)

1. Moskovskaya sel'skokhozyaystvennaya akademiya imeni K.A.Timiryazeva.
(Electricity in agriculture)

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LIS'TOV, P N

Rol' elektrifiatsii v pod "yeme sel'skogo
khozyaystva SSSR (role of electrification in the rise
of agriculture in the USSR, by) P. N. Listov i A. V. Sergeyev.
Moskva, Gospolitizdat, 1954.

70 P.

Listov, P. N.

AID P - 619

Subject : USSR/Electricity

Card 1/1 Pub. 27 - 23/35

Author : Lukacher, V. G., Eng., Moscow

Title : More responsibility in author's work (Comments)

Periodical : Elektrичество, 8, 83-84, Ag 1954

Abstract : P. N. Listov's book Application of Electric Power in Agriculture, recommended by the Administration of Educational Institutions of the Ministry of Agriculture of the USSR, has several serious deficiencies and mistakes, which the author points out. More care in future publications is advised.

Institution : Moscow Institute of Tools and Instruments im. Stalin

Submitted : No date

LISTOV, P. N., doktor tekhnicheskikh nauk, professor; ADOYAN, A. G., kandidat
tekhnicheskikh nauk; KOMYAGIN, A. F., inzhener

Efficient method for paying out, lifting and laying the cable
on electric tractors. Izv. TSKhA no.1:185-200 '56. (MLRA 9:10)

(Electric cables) (Tractors)

~~LISTOV, P.N., doktor tekhnicheskikh nauk, professor; RUMOV, B.A., kandidat
tekhnicheskikh nauk, dotsent.~~

Automatic equipment in agriculture. Izv. TSKhA no.2:223-230
'56. (MLRA 9:12)

(Electricity in agriculture) (Automatic control)

LISTOV, P.N., doktor tekhnicheskikh nauk, professor; KAMYAGIN, A.F.,
tezhener.

Studing the cable drum drive of electric tractors and combines. Izv.
TSKhA no.3:215-232 '56. (MLRA 10:3)
(Electric cables) (Tractors) (Combines (Agricultural machinery))

LISTOV, P.N.; ZLATKOVSKIY, A.P., kand.tekhn.nauk

Over-all electrification of the "Rossiya" Collective Farm. Makh.
i elek.sots.sel'khoz. no.5:1-6 '56. (MIRA 12:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut elektrifikatsii
sel'skogo khozyaystva. 2. Chlen-korrespondent Vsesoyuznoy akademii
sel'skokhozyaystvennykh nauk im. Lenina (for Listov).
(Electricity in agriculture)

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CIA-RDP86-00513R000930120013-2

LISTOV, PETR, NIKOLAYEVICH

LISTOV, Petr Nikolayevich; GANELIN, Aleksandr Moiseyevich, kand.tekhn.nauk;
SMELYANSKIY, V.A., red.; ZUBRILINA, Z.P., tekhn.red.

[Electric fence; electric herder] Elektricheskaya izgorod'
(elektropastukh). Moskva, Gos.izd-vo sel'khoz.lit-ry, 1957.
28 p. (MIRA 11:1)

1. Chlen-korrespondent Akademii sel'skokhozyaystvennykh nauk. (for Listov).
(Electric fences)

APPROVED FOR RELEASE: 06/20/2000

CIA-RDP86-00513R000930120013-2"

Listov, P.N.

LISTOV, P.N., doktor tekhn. nauk, prof.

Mechanization and electrification of agriculture during 40 years
of Soviet rule [with summary in English]. Izv. TSKhA no. 4:159-168
'57. (MIRA 11:1)
(Farm mechanization) (Electricity in agriculture)

LISTOV, P.N., doktor tekhn. nauk, prof.; KOMYAGIN, A.F., kand. tekhn. nauk.

New method of stowing cables of mobile agricultural machinery
operated by electricity [with summary in English]. Izv. TSKhA
no.6:181-196 '57. (MIRA 11:3)

(Electric cables)

LISTOV, Petr Nikolayevich, prof., doktor tekhn. nauk.; BANNIKOV, S.A., red.;
YEDOTOVA, A.F., tekhn. red.; BALLOD, A.I., tekhn. red.

[Laboratory and practical studies on the use of electric power
in agriculture] Laboratorno-prakticheskie zaniatia po primeneniyu
elektricheskoi energii v sel'skom khoziaistve. Moskva, Gos. izd-vo
sel'khoz. lit-ry. 1958. 214 p.
(Electricity in agriculture) (MIRA 11:12)

LISTOV, P.N., prof., doktor tekhn.nauk; MYAKISHEV, N.F., aspirant

Using high-frequency electric motors for hand-operated tools
in vegetable gardening. Izv. TSKhA no.4:157-172 '58.
(MIRA 11:10)

(Electric motors) (Electricity in agriculture)

LISTOV, P.N.

Mechanisation and electrification of agriculture at the Brussels's
World's Fair in 1958. Mekh.i elek.sots.sel'khoz. 16 no.5:53-56
'58. (MIRA 11:11)

1. Chlen-korrespondent Vsesoyuznoy Akademii sel'skokhozyaystvennykh
nauk imeni V.I. Lenina.
(Brussels—Agricultural machinery—Exhibitions)

LISTOV, P.N.

Agricultural mechanization and electrification at the 1958 World Fair
in Brussels (to be continued). Mekh. i elek. sots. sel'khoz. 16 no.6:
48-51 '58. (MIRA 12:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyay-
stvennykh nauk imeni V.I. Lenina.
(Brussels--Rural electrification--Exhibition)
(Brussels--Agricultural machinery--Exhibition)

Listov, P. N.

PAGE 1 BOOK REFERENCES

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Abdulov, N.M. *Soviet Magnetic-Field Institute in G.M. Ordzhonikidze Publishing Enterprise*: shortwave publications division G.M. Ordzhonikidze Publishing House (Bukhara), Moscow, 1979. 651 p. Review also inserted.
2,000 copies printed.

Ed. of Publishing House: B.N. Abramov, P.V. Babayev, P.I. Zhdanov, and
Yu. M. Krylov; Tech. Ed.: I.A. Tsvetkov; Editorial Board: A.V. Vaisser,
V.S. Dzhambashev (Chairman), V.L. Popov (Dept. Ed.) Corresponding Member,
Academy of Sciences USSR, V.L. Popov, A.R. Prokudinov, N.M. Stepanov,
M.V. Chubarov, N.B. Kogutov, Candidate of Technical Sciences, N.I. Kozlov,
Candidate of Technical Sciences, N.M. Leshov, Candidate of Technical Sciences
and I.M. Smirnov.

PURPOSE: This collection of articles is intended as a tribute to the memory
of Academician G.M. Ordzhonikidze.

CONTENTS: The collection contains sixty articles by former students and
members of the deceased Academician. The articles deal with problems
of a wide range of subjects in the field of power engineering:
of the regional development of electrical and thermal power engineering,
power engineering technology and the physics of combustion. No personalities
are mentioned. References are given after most articles.

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LISTOV, P.N., prof., doktor tekhn.nauk; KROPP, L.I., aspirant

New methods of feed distribution on livestock farms. Izv.TSKhA
no.3:209-220 '59.
(Feeding) (Farm mechanization)

LISTOV, P.N., prof.; GANELIN, A.M.

Apparatus used in agricultural research. Zemledelie 7 no.6:
73-78 Je '59. (MIRA 12:8)
(Agricultural research)

LISTOV, P.N.

Mechanization and electrification of agriculture at the Brussels
World Fair, 1958. Mekh. i elek. sets. sel'skohoz. 17 no.1:54-56
'59. (MIRA 12:1)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystven-
nykh nauk imeni V.I. Lenina.

(Brussels--Rural electrification--Exhibitions)

(Brussels--Agricultural machinery--Exhibitions)

LISTOV, P.N., prof., doktor tekhn.nauk; GANELIN, A.M.; GRICHEVSKIY, E.Ya.; LEVIN, M.S.; MURADYAN, A.Ye.; SLAVIN, R.M.; YAKOBS, A.I.; DEMINA, G.A., red.; TONER, A.M., tekhn.red.

[Electrician for rural electric power systems] Elektromonter sel'skoi elektrifikatsii. Pod red. P.N.Listova. Moskva, Vses. uchebno-pedagog.isd-vo Proftekhizdat, 1960. (MIRA 13:5)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhoz.nauk (VASKhNIL) (for Listov).

(Electricians--Handbooks, manuals, etc.)
(Electricity in agriculture)

LISTOV, Petr Nikolayevich, prof., doktor tekhn. nauk; NIKITINA, V.M.,
red.; DEYEVA, V.M., tekhn. red.

[Use of electric power in agriculture] Primenenie elektricheskoi energii v sel'skom khoziaistve. Izd.2., ispr. i dop.
Moskva, Izd-vo sel'khoz. lit-ry, zhurnalov i plakatov, 1961.
407 p.

(MIRA 15:3)

(Electricity in agriculture)

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LISTOV, P.N., prof., doktor tekhn.nauk; KROPP, L.I., aspirant

Using friction-type cable transmissions in feed-distributing installations. Inv.TSCh no.1:213-229 '61. (MIRA 14:3)
(Conveying machinery)

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CIA-RDP86-00513R000930120013-2"

ANDRIANOV, V.N.; BURGACHEV, S.A.; YEVREINOV, M.G.; ZAKHARIN, A.G.;
KRASNOV, V.S.; LISTOV, P.N.; LAZAROV, G.I.; POYARKOV, M.F.;
SAZONOV, N.A.; STEPANOV, V.N.; ERIN, L.Ye.

I.A. Budzko [deystvitel'nyy chlen Vsesoyuznoy akademii sel'sko-
khozyaystvennykh nauk imeni Lenina]; on his fiftieth birthday
and thirtieth anniversary of scientific and pedagogical work.
Elektrichestvo no.5:87 My '61. (MIRA 14:9)
(Budzko, Igor' Aleksandrovich, 1911-)

LISTOV, P.N.

Possible trends in farm electrification. Mekh.i elek.sots.sel'khoz.
19 no.5:4-5 '61. (MIRA 14:10)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni Lenina.
(Electricity in agriculture)

LISTOV, P.N.

Academician V.A. Zheligovskii. Izv. TSKhA no.6:224-225 '61.
(MIRA 16:8)

1. Chlen-korrespondent Vsesoyuznoy akademii sel'skokhozyaystvennykh
nauk imeni Lenina.
(Zheligovskii, Vladislav Aleksandrovich, 1891-)

GANELIN, Aleksandr Moiseyevich; LEVIN, Moisey Solomonovich. Prinimali
uchastiye: SERGIYEVSKIY, A.S.; KISHECHNIKOV, S.A.; LISTOV,
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LISTOV, P.N., doktor tekhn. nauk; KALUGINA, Yu.P., aspirantka

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AYVAZ'YAN, V.G.; ALEKSANDROV, B.K.; ANDRIANOV, V.N.; BESCHINSKIY, A.A.;
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Andrei Georgievich Zakharin, 1904- ; on his 60th birthday.
Elektrichestvo no.1:91 Ja '65. (MIRA 18:7)

ANDRIANOV, V.N.; BUTZKO, I.A.; VENIKOV, V.A.; DEMIN, A.V.; GORODSKIY, D.A.;
GRUDINSKIY, P.G.; ZAKHARIN, A.G.; KRASNOV, V.S.; LEVIN, M.S.; LISTOV,
P.N.; MARKOVICH, I.M.; MEL'NIKOV, N.A.; NAZAROV, G.I.; RAZEVIG, D.V.;
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Doctor of technical sciences, Professor Lev Efimovich Ebin, 1905-; on
his 60th birthday. Elektricheskoye no.6:91 Je '65.
(MIRA 18:7)

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AUTHOR: Ayvaz'yan, V. G.; Aleksandrov, B. K.; Andrianov, V. N.; Beschinskiy, A. A.; Budzko, I. A.; Zhimerin, D. G.; Krasnov, V. S.; Krushilin, G. N.; Kulebakin, V. S.; Listova, P. N.; Markvardt, K. G.; Markovich, I. M.; Popkov, V. I.; Styrikovich, M. A.

ORG: none

TITLE: Professor Andrey Georgiyevich Zakharin

SOURCE: Elektrичество, no. 1, 1965, 91

TOPIC TAGS: electric power engineering, electric engineering personnel

ABSTRACT: A short biography of subject on the occasion of his 60th birthday in November 64. A close disciple of Krzhizhanovskiy, he now heads sector of general methodological problems and forecasting at ENIN (Institute of Power Engineering imeni Krzhizhanovskiy), and power engineering section within its scientific council. In 1927-1932, worked in designing and construction of power stations and industrial power installations in the Trans-Caucasus. In 1932, having graduated as electrical engineer from Tbilisi Polytechnical Institute, he switched to scientific work at All-Union Institute of Farm Electrification, and at ENIN since 1944. Became candidate of technical sciences in 1937; doctor, in 1948. Subject is credited with working out the methods for designing efficient and economical regional and local power systems, utilizing local power resources and coordinating them with the power grids. He participated in studies on electrification through 1980, and on

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